	Application No.	Applicant(s)
Notice of Allowability	10/791,632	AGARWAL ET AL.
	Examiner	Art Unit
	Zhuo H. Li	2185
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to 3/2/2007.		
2. \boxtimes The allowed claim(s) is/are <u>1-30</u> .		
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application No. cuments have been received in thi	s national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
· ,		
Attachment(s)		D
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal 6. ☐ Interview Summal 	
	e. ☐ Interview Summa Paper No./Mail D 7. ☐ Examiner's Amen	ate
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Li Examiner's Amen	dment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	_	nent of Reasons for Allowance
	9. Other	
	•	-Aus

Application/Control Number: 10/791,632

Art Unit: 2185

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

1. Claims 1-30 are allowed over prior arts.

2. The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a packet switching systems in a communications network and method for identifying a combined ordering of masks corresponding to a plurality of access control lists in order to reduce the number of block masks required for programming multiple access control lists in an associative memory (i.e., the multiple access control lists is generated in an *n*-dimensional array, each axis of the *n*-dimensional array corresponds to masks in their requisite order of different one of the multiple access control lists, and the *n*-dimensional array progressively identifies numbers of different masks required for subset orderings of masks required for subsets of the multiple access control lists, and the n-dimensional array is traversed to identify a sequence of masks corresponding a single ordering of masks including masks required for each of multiple access control lists, which it provides greater speed and capacity in a communications network).

Applicant's independent claims 6, 11, and 21 each recites, *inter alia*, memory (100) with a structure as defined in the specification (pages 13-18) including steps for generating an *n*-dimensional array wherein each axis of the *n*-dimensional array corresponds to masks in their said requisite order of a different one of the plurality of access control lists, the *n*-dimensional array progressively identifying numbers of different masks required for subset orderings of masks required for subsets of the plurality of access control lists, and traversing the *n*-

Application/Control Number: 10/791,632

Art Unit: 2185

dimensional array to identify a sequence of masks corresponding to a single ordering of masks including masks required for each of the plurality of access control lists, wherein the single ordering of masks maintains the ordering of masks required for each of the plurality of access control lists with one or more masks corresponding to a different access control list or other feature in between one or more consecutive masks of an access control list of the plurality of access control lists. Applicant's independent claims 6, 11, and 21, each comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Applicant's independent method claims 1 and 16, each recites, *inter alia*, generating an *n*-dimensional array wherein each axis of the *n*-dimensional array corresponds to masks in their said requisite order of a different one of the plurality of accessing control lists, the *n*-dimensional array progressively identifying numbers of different masks required for subset orderings of masks required for subsets of the plurality of access control lists, and traversing the *n*-dimensional array to identify a sequence of masks corresponding to a single order of masks including masks required for each of the plurality of access control lists, wherein the single ordering of masks maintains the ordering of masks required for each of the plurality of access control lists with one or more masks corresponding to a different access control list or other feature in between one or more consecutive masks of an access control list of the plurality of access control lists. These steps, in combination of the remaining steps, are neither taught nor suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Page 4

Application/Control Number: 10/791,632

Art Unit: 2185

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the 3.

examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The

examiner can normally be reached on Mon - Fri 10:00am - 6:30pm...

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sanjiv Shah can be reached on 571-272-4098. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

4. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SANJIV SHAH SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100

Zhuo H. Li

Patent Examiner March 13, 2007